INTERCEPTED PLANT PESTS 1968 - 1969

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PLANT PROTECTION DIVISION
PRODUCTION & MARKETING
BRANCH
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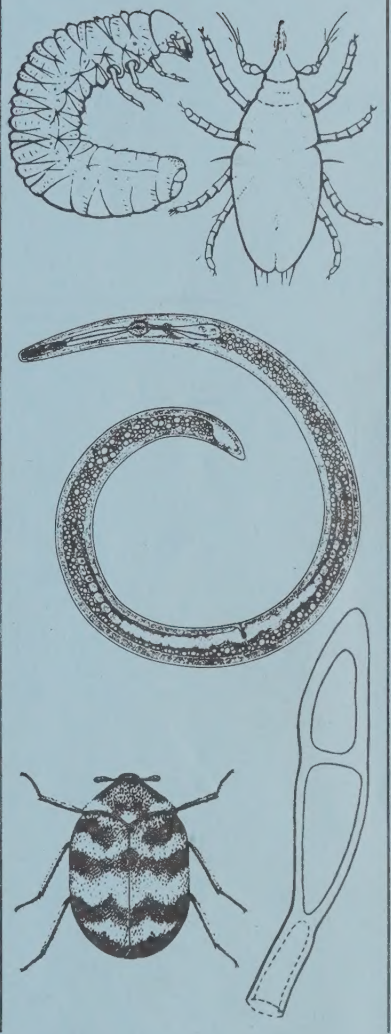
OF AGRICULTURE

PLANT QUARANTINE



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- 8 JUN 1970

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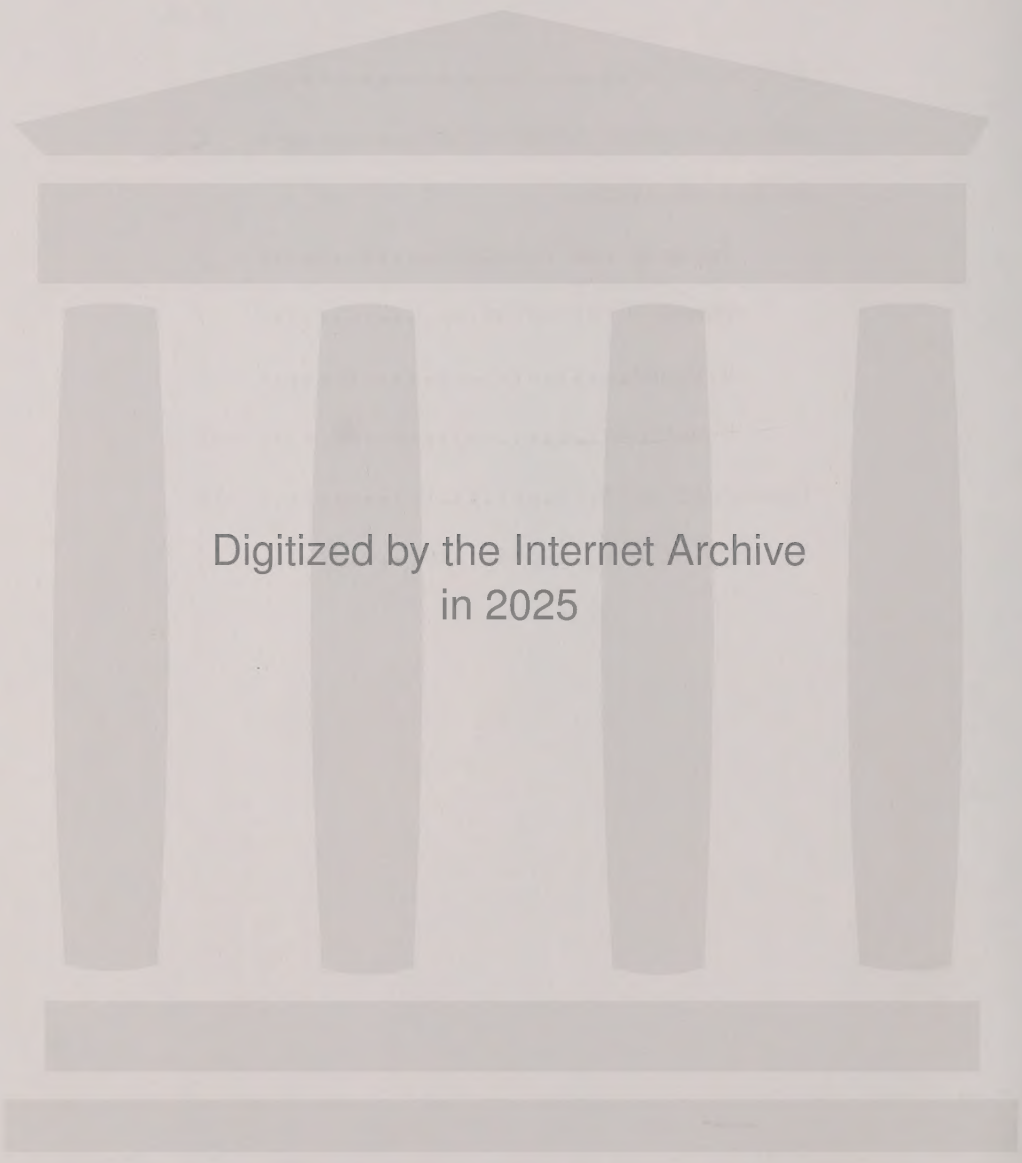
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CANADA DEPARTMENT OF AGRICULTURE

Production and Marketing Branch — Plant Protection Division

LIST OF INTERCEPTED PLANT PESTS

April 1st, 1968 - March 31st, 1969

INTRODUCTION

This report summarizes the import interception records of the Plant Protection Division for the period April 1st, 1968, to March 31st, 1969, and includes plant pests found on plants, plant products, baggage, cargo, mail or carriers entering Canada. Pest records concerning pre-shipment inspection of flowering bulbs in the Netherlands, the Canadian Nursery Survey, Canadian Export Certification, and various domestic surveys may be found in other reports covering these activities. The following lists include only those pests which are considered to be of plant quarantine interest and a few which may be of interest because they are new to the country of origin or to the host plant or are of limited distribution in Canada.

In order to prepare a report of this type, Canadian distribution records for the various plant pests must be available and the taxonomy of the various groups must be relatively stable. Where there is insufficient information in regard to these requisites, the pests concerned are arbitrarily included in these lists.

In this report pests are recorded in three groups: insects, etc.; fungi, bacteria, viruses and nematodes. Imports are divided into two groups: "propagation" and "consumption", according to their obvious or intended use. The term "non-entry" may appear under either of these two groups. This refers to the interception of a pest in the space of a carrier (ship, airplane, etc.) or on some product, plant, etc. within the carrier not intended to be moved into this country. In all cases, however, the carrier was present on Canadian soil or in Canadian waters at the time of inspection. The heading "Host (or carrier)" is used in this report because many of the plants associated with a specific pest may not necessarily be host plants, and soil or other materials not associated with plants at the time of interception may also carry pests. The term "Soil" is used only when no recognizable plant or plant material could be associated with the soil in which a pest was found.

Both the "Host" and "Origin" lists refer only to the name of the pest organism. The most complete information is available in the "Pest" list. A large number of the more common intercepted insects, mites, mollusca, fungi, bacteria and nematodes were not included in these lists, but information on these as well as more detailed information on those included here is on file and may be obtained by contacting The Director, Plant Protection Division, Ottawa.

With few exceptions, determinations of insects, nematodes and fungi were made or were confirmed by specialists in the Research Branch, Canada Agriculture. Mollusca were identified at the Canadian National Museum. In certain ports, inspectors are qualified to make identifications of specific pests because of frequent interceptions of the pest from the same state or country. However, even such identifications are checked by specialists from time to time. The scientific names in these lists are those provided by each specialist at the time the determinations were made. Many pests were incompletely determined, but those which may be of quarantine significance are included in the lists.

Notes on Pests Intercepted

The total number of pest interceptions made during the present year was lower than the previous year. The 1967-68 total was 1,285 , and that for 1968-69 was 1,124. Most significant in this yearly comparison was the drop of over one-third in the number of insect interceptions.

The following table compares the total interceptions for each of the three pest groups with the related totals which are of quarantine or other interest. The figures in brackets are those for 1967-68.

	No. of Interceptions	
	Total	of P.Q. significance
Nematodes	440 (485)	222 (398)
Fungi, Bacteria, Viruses	280 (173)	94 (11)
Insects, mites, Molluscs	404 (627)	108 (210)
Grand Total	1,124 (1,285)	424 (619)

The increase in the number of interceptions of disease-producing entities is due to the incorporation into this annual report for the first time, of virus diseases determined at the Division's Post Entry Quarantine Station at Saanichton, B.C. Facilities and personnel are now available at the station for indexing all stocks of Prunus, Malus, Pyrus, Vitis and some related material entering Canada as nuclear breeding material.

Also of special interest in this report are the records of nematodes associated with numerous commercial shipments of strawberry planting stock arriving in British Columbia during 1968-69. Nematode pests which entered our records for the first time were: Criconemoides ornatum on Magnolia from Oregon, Hemicriconemoides wessoni on Citrus (orange plants) from Florida, Pratylenchus fallax on Convallaria (lily-of-the-valley) from the Netherlands, Tylenchorhynchus martini on orange plants from Florida and Heterodera? weissi on Oxalis and woody plants from Ireland and Tennessee respectively.

Other interceptions of interest were: Helix aspersa "the brown garden snail", five times from California, Iridomyrmex humilis "the Argentine Ant" from California, Solenopsis saevissima richteri "the imported fire Ant", from Florida, Tetramesa sp., a jointworm, on graminaceous plants from Italy, Pseudopinarus cerastes, a nut weevil, from Panama and Murmidius segregatus, a cylindrical bark beetle, from Hong Kong.

A.E. Straby
Central Identification Laboratory
Plant Protection Division

March 17, 1970

PEST (insect, etc.)	HOST (or carrier)	COUNTRY OF ORIGIN	NO. OF INTERCEPTIONS IN Prop.	Consump.	COLLECTED IN
Acedes pallescontella (Staint.) "large pale clothes moth" (Tiniidae):					
	Grain residue in ship.....	Europe		1 non-entry	N.B.
		Unknown		3 " "	N.B., Que., B.C.
Agriotes lineatus (L.) "a wireworm" (Elateridae):					
	✯ Fragaria.....	Germany (West)	1		Ont.
Archips sp. (Tortricidae):					
	Gardenia.....	Cal. (USA)	1		B.C.
Arianta arbustorum L. "a snail" (Helicidae):					
	Acer.....	Belgium	1		Que.
	Packing (with plants)	"	1		Que.
Aridius (Coninomus) constrictus (Gyll.) "a plaster beetle" (Lathridiidae) first interception:					
	Grain residue in ship.....	Unknown		1 non-entry	B.C.
Aspidiotus hederae (Vallot) "ivy scale" (Diaspididae):					
	Persea americana (Avocado fruit)....	Cal. (USA)		1	B.C.
Attagenus gloriosae (F.) (Dermestidae):					
	Grain residue in ship.....	Unknown		1 non-entry	B.C.
Bruchus lentis Froelich "lentil weevil" (Bruchidae):					
	Lens culinaris (lentil).....	Lebanon		1	B.C.
Bruchus rufimanus (Boh.) "broadbean weevil" (Bruchidae):					
	Cajanus (pigeon peas).....	India		1	Ont.
	Cicer (gram).....	Morocco		1	Que.
	Vicia prob. faba.....	Hong Kong		2	B.C.
		Pakistan		1	Que.
Carpophilus dimidiatus (F.) "corn sap beetle" (Nitidulidae):					
	Ananas (pineapple).....	Hawaii (USA)		1	Alta.
	Grain residue on ship.....	Cuba		1 non-entry	Que.
		Unknown		1 " "	B.C.
Carpophilus hemipterus (L.) "dried fruit beetle" (Nitidulidae):					
	Tulipa.....	Japan	1		Que.
Cepaea nemoralis (L.) "the banded wood snail" (Helicidae):					
	Sphagnum packing.....	Netherlands		1	Ont.
Chilo suppressalis Wlk. (or near this sp.) (Crambidae):					
	Bamboo(?)(woven articles).....	Korea		1	Man.
Coccus pseudomagnoliarum (Kuwana) (Coccidae):					
	Magnolia.....	Ore. (USA)	1		B.C.
Corcyra cephalonica Stainton "rice moth" (Pyralidae):					
	Grain residue on ship.....	Unknown		1 non-entry	N.B.
Cryptophilus integer (Heer.) (Erotylidae):					
	Oryza (rice).....	Guyana		1	B.C.
	" residue on ship.....	Unknown		1 non-entry	Que.

✯ Indicates items prohibited by regulation.

PEST (insect, etc.)	HOST (or carrier)	COUNTRY OF ORIGIN	NO. OF INTERCEPTIONS IN Prop.	Consump.	COLLECTED IN
Dinoderus brevis Horn (Bostrichidae):					
	Bamboo (crating, hats etc.).....	India		2	N.S.
		Japan		1	B.C.
		Philippines		1	Man.
Erebinae (Noctuidae):					
	Airplane (space).....	Unknown		1 non entry	B.C.
Frankliniella? tritici (Thripidae):					
	Matthiola (stock, cut plants).....	Ariz. (USA)		1	Ont.
Glischrochilus quadrisignatus (Say)"a dried fruit beetle"(Nitidulidae):					
	Grain residue on ship.....	Unknown		1 non entry	B.C.
Gnorimoschema (Phthorimaea) operculella (Zell.) "potato tuberworm" (Gelechiidae):					
	Solanum tuberosum.....	Fla., N. & S. Car., Va. (USA)	1		Que.
	(chipping potatoes).....	Va. (USA)		3	Que. & Ont. (2X)
		USA (State?)		2	Ont.
Gracilaria azaleella Brants "Azalea leaf miner" (Gracilariidae):					
	Rhododendron (azalea).....	Penn. (USA)	1		Ont.
		Wash. (USA)	1		B.C.
Haptoncus luteolus (Erichson) (Nitidulidae) first interception:					
	Oryza (rice).....	Guyana		1	B.C.
Helix aspersa (Müller)"brown garden snail" (Helicidae):					
	Hibiscus.....	Cal. (USA)	1		B.C.
	Juniperus.....	" "	1		B.C.
	Plants (woody).....	" "	2		B.C.
	Yucca.....	" "	1		B.C.
Hemipeplus marginipennis (Lec.)(Cucujidae) first interception:					
	Palm branches.....	Fla. (USA)		1	Que.
Heterobostrychus aequalis (Water.) (Bostrichidae):					
	Wood crates (holding cashew nuts)....	India		2	B.C.
Heterobostrychus? aequalis (Water.) (Bostrichidae):					
	Grain residue on ship.....	Unknown		1 non-entry	B.C.
Hofmannophila pseudospretella (Staint.) "brown house moth" (Oecophoridae):					
	Grain residue on ship.....	England		1 non-entry	N.B.
		Europe		1 " "	N.B.
		Unknown		1 " "	Ont.
		West Indies		1 " "	N.B.
Holoparamecus depressus Curtis (Lathridiidae) first interception:					
	Nelumbium (lotus seed).....	Hong Kong		1	Alta.
Iridomyrmex humilis (Mayr.) "the Argentine Ant" (Formicidae):					
	Bamboo plants.....	Cal. (USA)	1		B.C.
Kuwanaspis pseudoleucaspis (Kuwana) "bamboo diaspid scale" (Diaspididae) first interception:					
	Bamboo cuttings.....	Hawaii (USA)	1		Man.
Lasius alienus (Forster) (Formicidae):					
	Quercus (oak in soil).....	Penn (USA)	1		Ont.

PEST (insect, etc.)	HOST (or carrier)	COUNTRY OF ORIGIN	NO. OF INTERCEPTIONS IN Prop.	Consump.	COLLECTED IN
Lasius neoniger Emery (Formicidae):					
	Begonia tubers	Cal. (USA)	1		Ont.
	Strelitzia (bird of paradise plants)	Fla. (USA)	1		B.C.
Lepidosaphes beckii (Newman) "purple scale" (Diaspididae):					
	Citrus (oranges)	Japan		1	B.C.
Litargus balteatus (Lec.) "a hairy fungus beetle" (Mycetophagidae):					
	Copra residue on ship	Unknown		1 non-entry	B.C.
	Grain " " "	Texas (USA)		1 non-entry	B.C.
		Unknown		3 " "	Que. & B.C.(2X)
	Tulipa (with basal rot)	Japan	1		Que.
Lobobunaea epithyrena (Saturniidae) first interception:					
	★ None (insect shipment)	South Africa	1		Ont.
Lyctus sp. "a powder post beetle" (Lyctidae):					
	Wood basket	Spain		1	B.C.
Microgramme argus Reitter "a minute brown scavenger beetle" (Lathridiidae)first interception:					
	Oryza (rice)	Mexico		1	B.C.
Minthea rugicollis (Wlk.) (Lyctidae):					
	Grain residue on ship	Unknown		1 non-entry	B.C.
	Herbs (dried)	Hong Kong		1	B.C.
Murmidius ovalis Beck. "cylindrical bark beetles" (Murmidiidae):					
	Grain residue on ship	Unknown		1 non-entry	B.C.
Murmidius segregatus Water. "cylindrical bark beetles" (Murmidiidae) first interception:					
	Herbs (dried)	Hong Kong		1	B.C.
Myrmica Laevinodis Nyl. "a red ant" (Formicidae):					
	Sphagnum (packing with plants)	Netherlands		1	Man.
Myzus persicae (Sulz.) "green peach aphid" (Aphididae):					
	Matthiola (stock, cut plants)	Ariz. (USA)		1	Ont.
Nudaurelia cytherea (Saturniidae) first interception:					
	★ None (insect shipment)	South Africa	1		Ont.
Ostrinia nubilalis (Hbn.) "European corn borer" (Pyraustidae):					
	Graminaceous stem in plant packing	Netherlands		1	Man.
	Sorghum	Italy		1	Que.
Pharaxonotha kirschi Reitter "mexican grain beetle" (Erotylidae):					
	Zea (corn)	Mexico		1	B.C.
Phratora vitellinae (L.) (Chrysomelidae):					
	Prunus	Netherlands	1		B.C.
Pinnaspis aspidistrae (Signoret) "fern scale" (Diaspididae):					
	Aspidistra	Fla. (USA)	1		B.C.
Platyptilia sp. prob. pica (Wlsm.) "a plume moth" (Pterophoridae):					
	Pelargonium (cuttings)	Cal. (USA)	2		Ont.
Pseudopinarus cerastes (F.) (Curculionidae) first interception:					
	Gnetum (nuts)	Panama(Canal Zone)	1		Ont.

★ Indicates items prohibited by regulation.

PEST (insect, etc.)	HOST (or carrier)	COUNTRY OF ORIGIN	NO. OF INTERCEPTIONS IN Prop.	Consump.	COLLECTED IN
Saissetia oleae (Bern.) "black scale" (Coccidae):					
	Ficus.....	Fla. (USA)	1		Que.
Sinoxylon anale Lesne (Bostrichidae):					
	Wood strips (on bales of cotton).....	Pakistan		1	Que.
Sinoxylon conigerum Gerst. (Bostrichidae):					
	Wood crates (holding cashew nuts)....	India		4	N.S. & B.C.(3X)
Solenopsis saevissima richteri Forel. "imported fire ant" (Formicidae):					
	Strelitzia (bird of paradise).....	Fla. (USA)	1		B.C.
Spodoptera exigua (Hbn.) "beet armyworm" (Noctuidae):					
	Chrysanthemum (cuttings).....	Fla. (USA)	1		Ont.
Stenocatantops splendens (Thunb.) "a short-horned grasshopper"(Acrididae)first interception:					
	✯ None (Insect shipment).....	Philippines	1		B.C.
Stephanoderes hampei (Ferr.) (Scolytidae):					
	Coffea (coffee beans).....	Cameroon		1	Ont.
Tetramesa sp. "a jointworm" (Eurytomidae):					
	Graminaceous plants.....	Italy		1	Que.
Tetramorium caespitum (L.) "pavement ant" (Formicidae):					
	Juglans (walnuts).....	Cla. (USA)		1	Ont.
Thamnosphecia scitula (Harris) "dogwood borer" (Aegeriidae):					
	Cornus (dogwood).....	Tenn. (USA)	1		B.C.
Thyridopteryx ephemeraeformis (Haw.) "a bagworm" (Psychidae):					
	Juniperus.....	Tenn. (USA)	2		Ont.
Tipula sp., oleracea group "a cranefly" (Tipulidae):					
	Picea (spruce plants).....	Netherlands	1		Sask.
Trogoderma granarium Everts "Khapra beetle" (Dermestidae):					
	Debris (under rust scales on ship)...	Unknown		1	Ont.
	Grain residue on ship.....	"		2	Que. & Ont.
Trogoxylon prostomoides (Gorham) "a powder post beetle" (Lyctidae):					
	Bamboo (woven articles).....	Mexico		2	Ont.

✯ Indicates items prohibited by regulation.

PEST (Fungi & Bacteria)	HOST (or carrier)	COUNTRY OF ORIGIN	NO. OF INTERCEPTIONS IN Prop.	Consump.	COLLECTED IN
Amerosporium (Colletotrichum) trichellum (Fr.) Duke "anthracnose" (Melanconiales):					
	Hedera (ivy).....	Cal. (USA)	1		B.C.
Ascochyta sp. "a leaf and bud decay" (Sphaeropsidales):					
	Chrysanthemum (cuttings).....	Fla. (USA)	2		Ont.
Botryodiplodia theobromae Pat. "Java black rot of roots" (Sphaeropsidales) first interception:					
	Colocasia (taro root).....	Hong Kong		1	Ont.
Cumminsiella mirabilissima (Pk.) Nannf. "mahonia rust" (Uredinales):					
	Mahonia aquifolium.....	Wash. (USA)	1		B.C.
Curvularia trifolii (Shear.) Boed. f. sp. gladioli Parmelee & Luttrell "leaf spot and corm rot" (Moniliales) first interception from Netherlands:					
	Gladiolus.....	Netherlands	1		Que.
"Esca", Stereum necator and Fomes igniarius (Agaricales) first interception:					
	Vitis (rooted cuttings).....	France	1		B.C.
Gymnosporangium haraeanum (Syd.) "a juniper-pear rust" (Uredinales):					
	Juniperus chinensis.....	Japan	1		B.C.
Phomopsis sp. prob. conidial stage of Diaporthe elaeagni Rehm. "a stem canker" (Sphaeropsidales) first interception:					
	Elaeagnus (Russian olive).....	Netherlands	1		B.C.
Phyllosticta hedericola Dur. & Mont. "leaf spot" (Sphaeropsidales):					
	Hedera (ivy).....	Wash. (USA)	1		B.C.
Thyronectria berolinensis (Sacc.) Seav. "cane dieback" (Hypocreales) first interception:					
	Ribes alpinum.....	Netherlands	1		Ont.
Xanthomonas? dieffenbachiae (McCull. & Pirone) Rowson "bacterial leaf rot" (Pseudomonadales):					
	Dieffenbachia.....	Fla. (USA)	1		B.C.

PEST (Virus)	HOST (or carrier)	COUNTRY OF ORIGIN	NO. OF INTERCEPTIONS IN Prop.	Consump.	COLLECTED IN
Brown line:					
Malus var's. Kaneli Punain, Grusovka Revelskaja, Bakirsky Krasavec, Chodske, Schneiderapfel, Czarnogus, Zelesne.....		Russia	7		B.C.(P.E.Q.)
Chlorotic leaf spot:					
Malus var's. Ant. Poltorafuntawa, Ananas Bierzenicki, Sakeri Miron, Punamen Kaneli, Kaneli Punain, Havitus, Grusovka Revelskaja, Bakirsky Krasavec, Chodske, Grauer Hals, Schneiderapfel, Czarnogus, Manchu Crab, Sapran-Kitajka, Weinzweidzkyana, Zelesne, Budagorski.....		Russia	17		B.C.(P.E.Q.)
Malus var. Alnarp 2.....		Netherlands	1		B.C.(P.E.Q.)
Malus var's. Troch EM IX.....		Belgium	2		B.C.(P.E.Q.)
Corky bark:					
Vitis var. Dzerjo.....		Yugoslavia	1		B.C.(P.E.Q.)
Fan leaf:					
Vitis var. Favorit.....		Hungary	1		B.C.(P.E.Q.)
var's. Rugeri 140, 420 (Berlandieri X Riparia 420A), Reisling Italico.....		Italy	3		B.C.(P.E.Q.)
var's. Muscat & Monticula.....		Yugoslavia	2		B.C.(P.E.Q.)
Leaf roll:					
Vitis var's. Afusz A61, Sazzla, Ezereves.....		Yugoslavia	3		B.C.(P.E.Q.)
Rubbery wood:					
Malus var's. Ant. Poltorafuntawa, Ananas Bierzenicki, Grusovka Revelskaja, Bakirsky Krasavec, Ant. Novaja, Schneiderapfel, Czarnogus, Manchu Crab, Zelesne, Budagovski.....		Russia	10		B.C.(P.E.Q.)
var. Alnarp 2.....		Netherlands	1		B.C.(P.E.Q.)
Sour cherry yellows:					
Prunus (Cherry) var's. Gemelle, Durone I Vignola, Durone II Vignola.....		Italy	3		B.C.(P.E.Q.)
Spy epinasty:					
Malus var's. Ant. Poltorafruntawa, Ananas Bierzenicki, Punamen Kaneli, Kaneli Punain, Havitus, Grusovka Revelskaja, Bakirsky Krasavec, Chodske, Ant. Novaja, Grauer Hals, Shneiderapfel, Czarnogus, Zelesne, Budagovski 9		Russia	14		B.C.(P.E.Q.)
var. Alnarp 2.....		Netherlands	1		B.C.(P.E.Q.)
var. Troch IX.....		Belgium	1		B.C.(P.E.Q.)
Stem pitting:					
Malus var's. Ant. Poltorafuntawa, Ananas Bierzenicki, Grusovka Revelskaja, Bakirsky Krasavec, Ant. Novaja, Schneiderapfel, Czarnogus, Manchu Crab, Zelesne, Budagovski.....		Russia	10		B.C.(P.E.Q.)
var. Troch IX.....		Belgium	1		B.C.(P.E.Q.)
Vein banding:					
Prunus (plum) var. Battema.....		Russia	1		B.C.(P.E.Q.)
Yellow mosaic:					
Vitis var. Afusz A61.....		Yugoslavia	1		B.C.(P.E.Q.)
Yellow vein:					
Vitis var's. Ezereves and Szolloskerter kiralyneta		Yugoslavia	2		B.C.(P.E.Q.)

"P.E.Q." denotes virus diseases determined at the Post-Entry Quarantine Sta., Plant Protection Div., Saanichton, B.C.

PEST (Nematode)	HOST (or carrier)	COUNTRY OF ORIGIN	NO. OF INTERCEPTIONS IN Prop.	Consump.	COLLECTED IN
Anguina agrostis (Steinbuch 1799)Filip. 1936 "grass seed nematode" (Tylenchidae):					
	Agrostis tenuis (Col. bentgrass seed)	New Zealand	1		B.C.
		Ore. (USA)	3		Que. & B.C.(2X)
Aphelenchoides fragariae (Ritzema Bos 1890)Christie 1932 "leaf blotch nematode"(Aphelenchoididae):					
	Fragaria (strawberry plants).....	Wash. (USA)	1		B.C.
Aphelenchoides sp. "foliar nematodes" (Aphelenchoididae):					
	Acer.....	Netherlands	1		Ont.
	Ampelopsis.....	"	1		Ont.
	Aralia.....	"	1		Ont.
	Buxus.....	"	1		Ont.
	Cornus.....	Mo. (USA)	1		Ont.
	Deutzia.....	Tenn. (USA)	1		Ont.
	Fraxinus.....	Netherlands	2		Ont.
	Ligustrum.....	"	1		Ont.
	Magnolia.....	"	1		Ont.
	Paeonia.....	Belgium	1		Alta.
	Pelargonium (cuttings).....	Cal. (USA)	1		Alta.
	Philadelphus.....	Germany(West)	1		Ont.
	Prunus.....	Iowa (USA)	1		Ont.
		Netherlands	1		Ont.
		Tenn. (USA)	1		Ont.
	Rhododendron.....	Netherlands	1		Ont.
	Rosa.....	Pa. (USA)	1		Ont.
	Syringa.....	Tenn. (USA)	1		Ont.
	Taxus.....	Netherlands	1		Ont.
	Vitis.....	Germany(West)	1		Ont.
Criconemoides curvatum Raski 1952 "a ring nematode" (Criconematidae):					
	Citrus (orange tree plants).....	Fla. (USA)	1		Que.
Criconemoides ornatum Raski 1958 "a ring nematode" (Criconematidae)first interception:					
	Magnolia.....	Ore. (USA)	1		B.C.
Criconemoides xenoplax Raski 1952 "a ring nematode" (Criconematidae):					
	Acer.....	Ill. (USA)	1		Ont.
Ditylenchus destructor Thorne 1945 "potato rot nematode" (Tylenchidae):					
	Iris (bulbs).....	Wash.(USA)	1		B.C.
Ditylenchus dipsaci (Kühn 1857) Filip. 1936 "bulb & stem nematode" (Tylenchidae):					
	Allium (onion sets).....	Germany(West)	1		Ont.
Helicotylenchus?digonicus Perry 1959 "a spiral nematode" (Tylenchidae):					
	Acer.....	Ill.(USA)	1		Ont.
Helicotylenchus platyurus Perry 1959 "a spiral nematode" (Tylenchidae):					
	Tsuga.....	Tenn. (USA)	1		Ont.
Helicotylenchus pseudorobustus (Steiner 1914) Golden 1956 "a spiral nematode"(Tylenchidae):					
	Citrus (orange tree plant).....	Fla. (USA)	1		Que.
Helicotylenchus sp. "spiral nematodes" (Tylenchidae):					
	Agathis.....	New Zealand	1		B.C.
	Ligustrum.....	Tenn. (USA)	1		Ont.
	Rhododendron (Azalea).....	Fla. (USA)	1		Ont.

PEST (Nematode)	HOST (or carrier)	COUNTRY OF ORIGIN	NO. OF INTERCEPTIONS IN Prop.	Consump.	COLLECTED IN
Hemicriconemoides wessoni Chitwood & Birchfield 1957 (Criconematidae)first interception:					
	Citrus (orange tree plant).....	Fla.(USA)	1		Que.
Heterodera avenae Woll. 1924 (Filip. 1934)"oat-cyst nematode" (Heteroderidae):					
✱	Acer (with soil).....	Netherlands	1		Ont.
✱	Anemone (with soil).....	"	1		Ont.
✱	Automobile (with soil).....	Germany(West)		1	N.S.
✱	Crassula (with soil).....	England	1		Alta.
✱	Dried flowers (with soil).....	Netherlands		1	Que.
✱	Fragaria (with soil).....	England	1		Ont.
✱	Machinery (Agric.-with soil).....	Germany(West)		1	N.S.
✱	Rosa (with soil).....	England	1		Ont.
		Netherlands	1		B.C.
✱	Plants (woody).....	Belgium	1		B.C.
✱	Soil sample.....	Germany(West)		1	Ont.
Heterodera? bifenestra Cooper 1955 (Heteroderidae) our first interception from England:					
✱	Rosa (with soil).....	England	1		Ont.
Heterodera cacti Filip. & Stek. 1941 "cactus-cyst nematode" (Heteroderidae):					
✱	Cactus plants.....	Unknown	1		Ont.
	Gleditsia.....	Ill. (USA)	1		Ont.
	Lilium.....	France	1		Que.
✱	Mentha.....	Italy	1		Que.
	Palmaceae.....	N.Y.(USA)	1		Que.
	Plants (woody).....	Tenn. (USA)	1		Ont.
	Thuja.....	N. Car.(USA)	1		Ont.
Heterodera fici Kirjanova 1954 "fig-cyst nematode" (Heteroderidae):					
✱	Automobile trailer (with soil).....	England		1	N.S.
✱	Mentha.....	Italy	1		Que.
Heterodera humuli Filip. 1934 "hop-cyst nematode" (Heteroderidae):					
✱	Cactus plants.....	France	1		Que.
✱	Plants (herbaceous).....	Italy	1		Ont.
✱	Soil (holy sample).....	India		1	B.C.
✱	Thymus.....	Portugal	1		Que.
Heterodera punctata Thorne 1928 "grass-cyst nematode" (Heteroderidae):					
	Acer.....	Belgium	1		Ont.
	Allium (ornamental).....	Netherlands	1		Ont.
✱	Automobile (with soil).....	Belgium		1	Ont.
		England		1	N.S.
✱	Automobile trailer (with soil).....	England		1	N.S.
✱	Bulldozers (with soil).....	Scotland		1	Ont.
	Plants.....	Belgium	1		Ont.
		✱ England	1		Alta.
		Netherlands	1		Ont.
	Prunus.....	Netherlands	1		B.C.
✱	Soil sample.....	Germany (West)		1	Ont.
✱	Tractors (with soil).....	England		1	N.S.

✱ Indicates items prohibited by regulation.

PEST (Nematode)	HOST (or carrier)	COUNTRY OF ORIGIN	NO. OF INTERCEPTIONS IN Prop.	Consump.	COLLECTED IN
Heterodera rostochiensis Woll. 1923 "potato-cyst nematode" (Heteroderidae):					
✱	Cactus plants	France	1		Que.
✱	*Calluna* (heather)	Scotland	1		Ont.
✱	*Oxalis* (shamrocks)	Ireland	3		Ont.
✱	*Rosa*	England	1		Ont.
		Germany(West)	1		Ont.
Heterodera schachtii Schmidt 1871 "sugar-beet nematode" (Heteroderidae):					
✱	Machinery (Agricultural with soil)	Netherlands		1	Que.
✱	*Oxalis* (shamrock)	Ireland	1		Ont.
✱	*Rosa*	Germany(West)	1		Ont.
Heterodera ? *tabacum* Lowns. & Lowns. 1954 "tobacco-cyst nematode" (Heteroderidae):					
✱	Plants (with soil)	Poland	1		Que.
Heterodera ? *weissi* Steiner 1949 "knotweed-cyst nematode" (Heteroderidae):					
✱	*Oxalis* (shamrock)	Ireland	2		Ont.
	Plants (woody)	Tenn. (USA)	1		Ont.
Hoplolaimus galeatus (Cobb 1913) Sher 1961 "a lance nematode" (Tylenchidae):					
	Acer	Penn. (USA)	1		Ont.
	Plants (woody)	Tenn. (USA)	1		Ont.
	Quercus	Penn. (USA)	1		Ont.
Hoplolaimus sp. "lance nematodes" (Tylenchidae):					
	Platanus	Tenn. (USA)	1		Ont.
Meloidogyne arenaria (Neil 1889) Chitwood 1949 "peanut root-knot nematode"(Heteroderidae):					
	Ligustrum	Tenn. (USA)	1		Ont.
Meloidogyne hapla (Neil 1889) Chitwood 1949 "northern root-knot nematode"(Heteroderidae):					
	Campanula	Mich.(USA)	1		Ont.
	Clematis	Netherlands	1		B.C.
	Forsythia	Tenn.(USA)	1		Ont.
	Hibiscus	Tenn.(USA)	1		Ont.
	Ligustrum	Netherlands	1		Ont.
		Tenn.(USA)	1		Ont.
	Rosa	Belgium	2		Ont.
		France	1		Ont.
		Ca.(USA)	1		Alta.
		Netherlands	5		Que.(3X),Ont.,Man
		Ore.(USA)	1		B.C.
	Spiraea	Tenn.(USA)	1		Ont.
	Taxus	Netherlands	1		Ont.
Meloidogyne incognita (Kofoid & White 1919) Chitwood 1949 "southern root-knot nematode" (Heteroderidae):					
	Lonicera	Tenn. (USA)	1		Ont.
	Lycopersicon (tomato seedlings)	Ga. (USA)	2		Ont.
		Miss. (USA)	2		Ont.
	Weigela	Tenn. (USA)	1		Ont.
Meloidogyne javanica (Treub. 1885) Chitwood 1949 "Javanese root-knot nematode"(Heteroderidae):					
	Lycopersicon (tomato seedlings)	Ga. (USA)	2		Ont.

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PEST (Nematode)	HOST (or carrier)	COUNTRY OF ORIGIN	NO. OF INTERCEPTIONS IN Prop.	Consump.	COLLECTED IN
Meloidogyne sp. "root-knot nematode" (Heteroderidae):					
	Deutzia	Tenn. (USA)	1		Ont.
	Lonicera	Tenn. (USA)	1		Ont.
	Philadelphus	Ala. (USA)	1		Ont.
	Plants (woody)	Tenn. (USA)	1		Ont.
	Rosa	Ga. (USA)	1		Alta.
		Tex. (USA)	2		Ont.
Paratylenchus projectus Jenkins 1956 "a pin nematode" (Criconematidae):					
	Acer	Ill. (USA)	1		Ont.
	Rhododendron	N.Y. (USA)	1		Ont.
Paratylenchus sp. "pin nematodes" (Criconematidae):					
	Berberis	La. (USA)	1		Ont.
	Crataegus	Ill. (USA)	1		Ont.
	Ligustrum	Tenn. (USA)	1		Ont.
	Malus	Ill. (USA)	1		Ont.
✱	Plants (herbaceous)	Italy	1		Alta.
	Plants (woody)	Mich. (USA)	1		Ont.
	Prunus	Ohio (USA)	1		Ont.
	Quercus	Penn. (USA)	1		Ont.
	Rhododendron	Fla. (USA)	1		Ont.
✱	Vitis (rooted cuttings)	Germany(West)	1		Ont.
Pratylenchus convallariae Seinhorst 1959 "a root-lesion nematode" (Tylenchidae):					
✱	Convallaria (lily-of-the valley)	Netherlands	1		Ont.
Pratylenchus crenatus Loof 1960 "a root-lesion nematode" (Tylenchidae):					
	Citrus (orange plants)	Fla. (USA)	1		Que.
	Fragaria	Wash. (USA)	12		B.C.
	Magnolia	Ore. (USA)	1		B.C.
✱	Plants (herbaceous)	England	1		Alta.
Pratylenchus fallax Seinhorst 1968 "a root-lesion nematode" (Tylenchidae)first interception:					
✱	Convallaria (lily-of-the valley)	Netherlands	1		Ont.
Pratylenchus neglectus (Rensch 1924) Filip. & S. Stek. 1941 "a root-lesion nematode"(Tylenchidae):					
	Fragaria	Wash. (USA)	1		B.C.
Pratylenchus penetrans (Cobb 1917) Filip. & S. Stek. 1941 "Cobbs' root-lesion nematode"(Tylenchidae):					
	Acer	Ill. (USA)	1		Ont.
	Citrus (orange plants)	Fla. (USA)	1		Que.
✱	Convallaria (lily-of-the valley)	Netherlands	1		Ont.
	Fragaria	Germany(West)	1		B.C.
		Wash. (USA)	2		B.C.
	Fraxinus	Belgium	1		Ont.
✱	Plants (herbaceous)	England	1		Alta.
Pratylenchus pratensis (de Man 1880) Filip. 1936 "a root-lesion nematode" (Tylenchidae):					
	Fragaria	Wash. (USA)	13		B.C.
Pratylenchus sp. "root-lesion nematodes" (Tylenchidae): There were 14 determinations from a wide variety of hosts from 9 countries.					
Pratylenchus ? new species (Tylenchidae):					
	Quercus	Penn. (USA)	1		Ont.
Pratylenchus vulnus Allen & Jensen 1951 "walnut root-lesion nematode" (Tylenchidae):					
	Fragaria	Wash. (USA)	5		B.C.

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PEST (Nematode)	HOST (or carrier)	COUNTRY OF ORIGIN	NO. OF INTERCEPTIONS IN Prop.	Consump.	COLLECTED IN
Rotylenchus sp. "a spiral nematode" (Tylenchidae):					
	Coprosma (Rubiaceae)	New Zealand	1		B.C.
	Ligustrum	Tenn. (USA)	1		Ont.
	Syringa	Tenn. (USA)	1		Ont.
	Tsuga	Tenn. (USA)	1		Ont.
Trichodorus sp. "a stubby-root nematode" (Diphtherophoridae):					
	Ampelopsis	Netherlands	1		Ont.
	Citrus (orange plants)	Fla. (USA)	1		Que.
Tylenchorhynchus brevidens Allen 1955 "a stunt nematode" (Tylenchidae):					
	Vaccinium (blueberry plants)	N.Y. (USA)	1		Ont.
Tylenchorhynchus martini Fielding 1956 "a stunt nematode" (Tylenchidae)first interception:					
	Citrus (orange plants)	Fla. (USA)	1		Que.
Xiphinema americanum Cobb 1913 "American dagger nematode" (Longidoridae):					
	Acer	Ill. (USA)	1		Ont.
		Penn. (USA)	1		Ont.
	Amelanchier	Ill. (USA)	1		Ont.
	Crataegus	Ill. (USA)	1		Ont.
	Magnolia	Ore. (USA)	1		B.C.
	Malus	Ill. (USA)	1		Ont.
	Plants (woody)	Tenn. (USA)	1		Ont.
	Platanus	Tenn. (USA)	1		Ont.
	Spartina	Guyana	1		Ont.
	Thuja	Oreg. (USA)	1		B.C.
	Tsuga	Tenn. (USA)	1		Ont.
Xiphinema diversicaudatum (Micoletzky 1927) Thorne 1939 "European dagger nematode"(Longidoridae					
	Rosa	Cal. (USA)	1		Ont.
Xiphinema sp. "a dagger nematode" (Longidoridae):					
	Ligustrum	Tenn. (USA)	1		Ont.
✱	Plants (herbaceous)	Italy	1		Alta.
	Plants (woody)	Mich. (USA)	1		Ont.
	Rosa	Cal. (USA)	1		Ont.

✱ Indicates items prohibited by regulation.

Hosts (or carriers) of Intercepted Pests

ACER:
- Aphelenchoides sp. (Nematode)
- Arianta arbustorum (Snail)
- Criconemoides xenoplax (Nematode)
- Helicotylenchus?digonicus "
- Heterodera avenae "
- H. punctata "
- Hoplolaimus galeatus "
- Paratylenchus projectus "
- Xiphinema americanum (2X) "

AGATHIS:
- Helicotylenchus sp. (Nematode)

AGROSTIS TENUIS:
- Anguina agrostis (4X) (Nematode)

AIRPLANE (space):
- Erebinae (Insect)

ALLIUM (onion sets):
- Ditylenchus dipsaci (Nematode)

ALLIUM (ornamental):
- Heterodera punctata "

AMELANCHIER:
- Xiphinema americanum "

AMPELOPSIS:
- Aphelenchoides sp. "
- Trichodorus sp. "

ANANAS (pineapple):
- Carpophyllus dimidiatus (Insect)

ANEMONE:
- Heterodera avenae (Nematode)

ARALIA:
- Aphelenchoides sp. Nematode)

ASPIDISTRA:
- Pinnaspis aspidistrae (Insect)

AUTOMOBILE:
- Heterodera avenae (Nematode)
- H. punctata "

AUTOMOBILE TRAILER:
- Heterodera fici "
- H. punctata "

BAMBOO (cuttings):
- Kuwanaspis pseudoleucaspis (Insect)

BAMBOO (plants):
- Iridomyrmex humilis "

BAMBOO (crating & containers):
- Chilo suppressalis (or near) (Insect)
- Dinoderus brevis "
- Trogoxylon prostomoides "

BEGONIA:
- Lasius neoniger "

BERBERIS:
- Paratylenchus sp. (Nematode)

BULLDOZERS:
- Heterodera punctata "

BUXUS:
- Aphelenchoides sp. "

CACTUS PLANTS:
- Heterodera cacti (Nematode)
- H. humuli "
- H. rostochiensis "

CAJANUS (pigeon peas):
- Bruchus rufimanus (Insect)

CALLUNA (heather):
- Heterodera rostochiensis (Nematode)

CAMPANULA:
- Meloidogyne hapla "

CHRYSANTHEMUM (cuttings):
- Ascochyta sp.(2X) (Fungus)
- Spodoptera exigua (Insect)

CICER (gram):
- Bruchus rufimanus "

CITRUS (oranges)

Lepidosaphes beckii (Insect)

CITRUS (plants):
- Criconemoides curvatum (Nematode)
- Helicotylenchus pseudorobustus "
- Hemicriconemoides wessoni "
- Pratylenchus crenatus "
- Pratylenchus penetrans "
- Trichodorus sp. "
- Tylenchorhynchus martini "

CLEMATIS:
- Meloidogyne hapla "

COFFEA (coffee berries):
- Stephanoderes hampei (Insect)

COLOCASIA (Taro roots)
- Botryodiplodia theobromae (Fungus)

Hosts (or carriers) of Intercepted Pests

CONVALLARIA (lily-of-the valley):
- Pratylenchus convallariae (Nematode)
- P. fallax "
- P. penetrans "

COPRA (residue on ship):
- Litargus balteatus (Insect)

COPROSMA (Rubiaceae):
- Rotylenchus sp. (Nematode)

CORNUS:
- Thamnosphecia scitula (Insect)

CRASSULA:
- Heterodera avenae (Nematode)

CRATAEGUS:
- Paratylenchus sp. "
- Xiphinema americanum "

DEBRIS (under rust on ship):
- Trogoderma granarium (Insect)

DEUTZIA:
- Aphelenchoides sp. (Nematode)
- Meloidogyne sp. "

DIEFFENBACHIA:
- Xanthomonas?dieffenbachiae (Fungus)

DRIED FLOWERS:
- Heterodera avenae (Nematode)

ELAEAGNUS:
- Phomopsis sp. (Fungus)

FICUS:
- Saissetia oleae (Insect)

FORSYTHIA:
- Meloidogyne hapla (Nematode)

GARDENIA:
- Archips sp. (Insect)

GLADIOLUS:
- Curvularia trifolii f. sp. gladioli (Fungus)

GLEDITSIA:
- Heterodera cacti (Nematode)

Gnetum (nuts)
- Pseudopinarus cerastes (Insect)

FRAGARIA (strawberry plants)
- Agriotes lineatus "
- Aphelenchoides fragariae (Nematode)
- Heterodera avenae "
- Pratylenchus crenatus(12X) "

FRAGARIA (strawberry plants)
- P. neglectus (Nematode)
- P. penetrans (3X) "
- P. pratensis (13X) "
- P. vulnus (5X) "

FRAXINUS
- Aphelenchoides sp. "
- Pratylenchus penetrans "

GRAIN RESIDUE IN SHIP:
- Acedes pallescentella (4X) (Insect)
- Aridius constrictus "
- Attagenus gloriosae "
- Carpophilus dimidiatus (2X) "
- Corcyra cephalonica "
- Glischrochilus quadrisignatus "
- Heterobostrychus?aequalis "
- Hofmannophila pseudospretella(4X) "
- Litargus balteatus (4X) "
- Minthea rugicollis "
- Trogoderma granarium (2X) "

GRAMINACEOUS STEM IN PACKING:
- Ostrinia nubilalis "

GRAMINACEOUS PLANT:
- Tetramesa sp. "

HEDERA:
- Amerosporium trichellum (Fungus)
- Phyllosticta hedericola "

HERBS (dried):
- Minthea rugicollis (Insect)
- Murmidius segregatus "

HIBISCUS:
- Helix aspersa (Snail)
- Meloidogyne hapla (Nematode)

IRIS:
- Ditylenchus destructor "

JUGLANS (nuts):
- Tetramorium caespitum (Insect)

JUNIPERUS:
- Gymnosporangium haraeanum (Fungus)
- Helix aspersa (Snail)
- Thyridopteryx ephemeraeformis (Insect)

LENS CULINARIS (lentils):
- Bruchus lentis (Insect)

LICUSTRUM:
- Aphelenchoides sp. (Nematode)
- Helicotylenchus sp. "
- Meloidogyne arenaria "
- M. hapla (2X) "
- Pratylenchus sp. "
- Rotylenchus sp. "
- Xiphinema sp. "

Hosts (or carriers) of Intercepted Pests

LILIUM:
- Heterodera cacti (Nematode)

LONICERA:
- Meloidogyne incognita "
- Meloidogyne sp. "

LYCOPERSICON (tomato seedlings):
- Meloidogyne incognita (4X) "
- M. javanica (2X) "

MACHINERY (Agricultural):
- Heterodera avenae "
- H. schachtii "

MAGNOLIA:
- Aphelenchoides sp. "
- Coccus pseudomagnoliarum (Insect)
- Criconemoides ornatum (Nematode)
- Pratylenchus crenatus "
- Xiphinema americanum "

MAHONIA AQUIFOLIUM:
- Cumminsiella mirabilissima (Fungus)

MALUS:
- Brown line (7X) (Virus)
- Chlorotic leaf spot (20X) "
- Pratylenchus sp. (Nematode)
- Rubbery wood (11X) (Virus)
- Spy epinasty (16X) "
- Stem pitting (11X) "
- Xiphinema americanum (Nematode)

MATTHIOLA:
- Frankliniella ? tritici (Insect)
- Myzus persicae "

MENTHA:
- Heterodera cacti (Nematode)
- H. fici "

NELUMBIUM (lotus seed):
- Holoparamecus depressus (Insect)

NO HOST (Insect shipment):
- Lobobunaea epithyrena (Insect)
- Nudaurelia cytherea "
- Stenocatantops splendens "

ORYZA (rice, including residue on ship):
- Cryptophilus integer (2X) "
- Haptoncus luteolus "
- Micrographe argus "

OXALIS (shamrock):
- Heterodera rostochiensis (3X) (Nematode)
- H. schachtii "
- H. weissi (2X) "

PACKING WITH PLANTS:
- Arianta arbustorum (Snail)

PAEONIA:
- Aphelenchoides sp. (Nematode)

PALM BRANCHES:
- Hemipeplus marginipennis (Insect)

PALMACEAE (plants):
- Heterodera cacti (Nematode)

PELARGONIUM (cuttings):
- Aphelenchoides sp. (Nematode)
- Platyptilia sp. prob. pica (2X) (Insect)

PERSEA (avocado fruit):
- Aspidiotus hederae (Insect)

PHILADELPHUS
- Aphelenchoides sp. (Nematode)
- Meloidogyne sp. "

PICEA
- Tipula sp. oleracea group (Insect)

PLANTS (herbaceous):
- Heterodera humuli (Nematode)
- H. punctata (3X) "
- H. ?tabacum "
- Pratylenchus sp. "
- P. crenatus "
- P. penetrans "
- Xiphinema sp. "

PLANTS (woody):
- Helix aspersa (2X) (Snail)
- Heterodera avenae (Nematode)
- H. cacti "
- H. weissi "
- Hoplolaimus galeatus "
- Meloidogyne sp. "
- Pratylenchus sp. "
- Xiphinema americanum "

PLATANUS:
- Hoplolaimus sp. (Nematode)
- Xiphinema americanum "
- Xiphinema sp. "

PRUNUS:
- Aphelenchoides sp. "
- Heterodera punctata "
- Phratora vitellinae (Insect)
- Pratylenchus sp. (Nematode)
- Sour cherry yellows (3X) (Virus)
- Vein banding "

QUERCUS:
- Lasius alienus (Insect)
- Hoplolaimus galeatus (Nematode)
- Paratylenchus sp. "
- Pratylenchus sp., new sp.? "

RHODODENDRON:
- Aphelenchoides sp. "

Hosts (or carriers) of Intercepted Pests

RHODODENDRON:
- Gracilaria azaleella (2X) (Insect)
- Helicotylenchus sp. (Nematode)
- Paratylenchus projectus "
- Paratylenchus sp. "

RIBES:
- Thyronectria berolinensis (Fungus)

ROSA:
- Aphelenchoides sp. (Nematode)
- Heterodera avenae (2X) "
- H. ? bifenestra "
- H. rostochiensis (2X) "
- H. schachtii "
- Meloidogyne hapla (10X) "
- Meloidogyne sp. (3X) "
- Xiphinema diversicaudatum "
- Xiphinema sp. "

SOLANUM (potato tubers):
- Gnorimoschema operculella (6X) (Insect)

SOIL (samples):
- Heterodera avenae (Nematode)
- H. humuli "
- H. punctata "

SORGHUM:
- Ostrinia nubilalis (Insect)

SPHAGNUM PACKING:
- Cepaea nemoralis (Snail)
- Myrmica laevinodis (Insect)

SPIRAEA:
- Meloidogyne hapla (Nematode)

STRELITZIA:
- Lasius neoniger (Insect)
- Solenopsis saevissima "

SYRINGA:
- Aphelenchoides sp. (Nematode)
- Rotylenchus sp. "

TAXUS:
- Aphelenchoides sp. "
- Meloidogyne hapla "

THUJA:
- Heterodera cacti "
- Xiphinema americanum "

THYMUS:
- Heterodera humuli "

TRACTORS:
- Heterodera punctata "

TSUGA:
- Helicotylenchus platyurus (Nematode)
- Rotylenchus sp. "
- Xiphinema americanum "

THUJA:
- Heterodera cacti "
- Xiphinema americanum "

THYMUS:
- Heterodera humuli "

VACCINIUM (blueberry):
- Tylenchorhynchus brevidens "

VICIA FABA:
- Bruchus rufimanus (3X) (Insect)

VITIS (rooted cuttings):
- Aphelenchus sp. (Nematode)
- "Esca" disease (Fungi)
- Paratylenchus sp. (Nematode)

VITIS (cuttings):
- Corky bark (Virus)
- Fan leaf (6X) "
- Leaf roll (3X) "
- Yellow mosaic "
- Yellow vein (2X) "

WEIGELA:
- Meloidogyne incognita (Nematode)

WOOD (baskets, crates):
- Heterobostrychus aequalis (2X) (Insect)
- Lyctus sp. "
- Sinoxylon anale "
- Sinoxylon conigerum (4X) (Insect)

YUCCA:
- Helix aspersa (Snail)

ZEA (corn):
- Pharaxonotha kirschi (Insect)

Countries of Origin and Pests Intercepted

BELGIUM:
- Aphelenchoides sp. (Nematode)
- Arianta arbustorum (2X) (Snail)
- Chlorotic leaf spot of apple (2X) (Virus)
- Heterodera avenae (Nematode)
- H. punctata (3X) "
- Meloidogyne hapla (2X) "
- Pratylenchus penetrans "
- Spy epinasty of apple (Virus)
- Stem pitting of apple "

CAMEROON:
- Stephanoderes hampei (Insect)

CUBA:
- Carpophilus dimidiatus "

ENGLAND:
- Heterodera avenae (3X) (Nematode)
- H. ? bifenestra "
- H. fici "
- H. punctata (4X) "
- H. rostochiensis "
- Hofmannophila pseudospretella (Insect)
- Pratylenchus crenatus (Nematode)
- P. penetrans "

EUROPE:
- Acedes pallescentella (Insect)
- Hofmannophila pseudospretella "

FRANCE:
- "Esca" disease of grape (Fungi)
- Heterodera cacti (Nematode)
- H. humuli "
- H. rostochiensis "
- Meloidogyne hapla "

GERMANY (West):
- Agriotes lineatus (Insect)
- Aphelenchoides sp. (2X) (Nematode)
- Ditylenchus dipsaci "
- Heterodera avenae (3X) "
- H. cacti "
- H. punctata "
- H. rostochiensis "
- H. schachtii "
- Paratylenchus sp. "
- Pratylenchus penetrans "

GUYANA:
- Cryptophilus integer (Insect)
- Haptoncus luteolus "
- Xiphinema americanum (Nematode)

HONG KONG:
- Botryodiplodia theobromae (Fungus)
- Bruchus rufimanus (2X) (Insect)
- Holoparamecus depressus "
- Minthea rugicollis "
- Murmidius segregatus "

HUNGARY:
- Fan leaf of grape (Virus)

INDIA:
- Bruchus rufimanus (Insect)
- Dinoderus brevis (2X) "
- Heterobostrychus aequalis (2X) "
- Heterodera humuli (Nematode)
- Sinoxylon conigerum (4X) (Insect)

IRELAND:
- Heterodera rostochiensis (3X) (Nematode)
- H. schachtii "
- H. ? weissi (2X) "

ITALY:
- Fan leaf of grape (3X) (Virus)
- Heterodera fici (Nematode)
- H. humuli "
- Ostrinia nubilalis (Insect)
- Paratylenchus sp. (Nematode)
- Sour cherry yellows (3X) (Virus)
- Tetramesa sp. (Insect)
- Xiphinema sp. (Nematode)

JAPAN:
- Carpophilus hemipterus (Insect)
- Dinoderus brevis "
- Gymnosporangium haraeanum (Fungus)
- Lepidosaphes beckii (Insect)
- Litargus balteatus "

KOREA:
- Chilo ? suppressalis or near "

LEBANON:
- Bruchus lentis "

MEXICO:
- Micrograme argus "
- Pharaxonotha kirschi "
- Trogoxylon prostomoides (2X) "

MOROCCO:
- Bruchus rufimanus "

NETHERLANDS:
- Aphelenchoides sp. (10X) (Nematode)
- Cepaea nemoralis (Snail)
- Chlorotic leaf spot of apple (Virus)
- Curvularia trifolii f. sp. gladioli (Fungus)
- Heterodera avenae (4X) (Nematode)
- H. punctata (3X) "
- H. schachtii "
- Meloidogyne hapla (8X) "
- Myrmica laevinodis (Insect)
- Ostrinia nubilalis "
- Phomopsis sp. on Elaeagnus (Fungus)
- Phratora vitellinae (Insect)
- Pratylenchus convallariae (Nematode)
- P. fallax "
- P. penetrans "

Countries of Origin and Pests Intercepted

NETHERLANDS: cont'd:
- Rubbery wood of apple (Virus)
- Spy epinasty of apple "
- Thyronectria berolinensis (Fungus)
- Tipula sp. oleracea group (Insect)
- Trichodorus sp. (Nematode)

NEW ZEALAND:
- Anguina agrostis "
- Helicotylenchus sp. "
- Rotylenchus sp. "

PAKISTAN:
- Bruchus rufimanus (Insect)
- Sinoxylon anale "

PANAMA (Canal Zone):
- Pseudopinarus cerastes "

PHILIPPINES:
- Dinoderus brevis "
- Stenocatantops splendens "

POLAND:
- Heterodera ? tabacum (Nematode)

PORTUGAL:
- Heterodera humuli "

RUSSIA:
- Brown line of apple (7X) (Virus)
- Chlorotic leaf spot of apple (17X) "
- Rubbery wood of apple (10X) "
- Spy epinasty of apple (14X) "
- Stem pitting of apple (10X) "
- Vein banding of plum "

SCOTLAND:
- Heterodera punctata (Nematode)
- H. rostochiensis "

SOUTH AFRICA:
- Lobobunaea epithyrena (Insect)
- Nudaurelia cytherea "

SPAIN:
- Lyctus sp. "

UNITED STATES OF AMERICA (by states)

ALABAMA:
- Meloidogyne sp. (Nematode)

ARIZONA:
- Frankliniella ? tritici (Insect)
- Myzus persicae "

CALIFORNIA:
- Amerosporium trichellum (Fungus)
- Aphelenchoides sp. (Nematode)
- Archips sp. (Insect)
- Aspidiotus hederae "
- Helix aspersa (5X) (Snail)
- Iridomyrmex humilis (Insect)
- Lasius neoniger "
- Platyptilia sp. prob. pica (2X) "
- Tetramorium caespitum "
- Xiphinema diversicaudatum (Nematode)
- Xiphinema sp. "

FLORIDA:
- Ascochyta sp. (2X) (Fungus)
- Criconemoides curvatum (Nematode)
- Helicotylenchus pseudorobustus "
- Helicotylenchus sp. "
- Hemicriconemoides wessoni "
- Hemipeplus marginipennis (Insect)
- Lasius neoniger "
- Paratylenchus sp. (Nematode)
- Pinnaspis aspidistrae (Insect)
- Pratylenchus crenatus (Nematode)
- P. penetrans "
- Saissetia oleae (Insect)
- Solenopsis saevissima richteri "
- Spodoptera exigua "
- Trichodorus sp. (Nematode)
- Tylenchorhynchus martini "
- Xanthomonas ? diefenbachiae (Bacterium)

FLORIDA, NORTH & SOUTH CAROLINA & VIRGINIA (one or more of these states):
- Chorimoschema operculella (Insect)

GEORGIA:
- Meloidogyne sp. (Nematode)
- M. hapla "
- M. incognita (2X) "
- M. javanica (2X) "

HAWAII:
- Carpophilus dimidiatus (Insect)
- Kuwanaspis pseudoleucaspis "

ILLINOIS:
- Criconemoides xenoplax (Nematode)
- Helicotylenchus ? digonicus "
- Heterodera cacti "
- Paratylenchus projectus "
- Paratylenchus sp. (2X) "
- Pratylenchus penetrans "
- Xiphinema americanum (4X) "

IOWA:
- Aphelenchoides sp. "

Countries of Origin and Pests Intercepted

LOUISIANA:
- Paratylenchus sp. (Nematode)

MICHIGAN:
- Meloidogyne hapla "
- Paratylenchus sp. "
- Xiphinema sp. "

MISSISSIPPI:
- Meloidogyne incognita (2X) "

MISSOURI:
- Aphelenchoides sp. "

NEW YORK:
- Heterodera cacti (Nematode)
- Paratylenchus projectus "
- Tylenchorhynchus brevidens "

NORTH CAROLINA:
- Heterodera cacti "

OHIO:
- Paratylenchus sp. "

OREGON:
- Anguina agrostis (3X) "
- Coccus pseudomagnoliarum (Insect)
- Criconemoides ornatum (Nematode)
- Meloidogyne hapla "
- Pratylenchus crenatus "
- Xiphinema americanum (2X) "

PENNSYLVANIA:
- Aphelenchoides sp. "
- Gracilaria azaleella (Insect)
- Hoplolaimus galeatus (2X) (Nematode)
- Lasius alienus (Insect)
- Paratylenchus sp. (Nematode)
- Pratylenchus sp. ? new species "
- Xiphinema americanum "

TENNESSEE:
- Aphelenchoides sp. (3X) "
- Helicotylenchus platyurus "
- Helicotylenchus sp. "
- Heterodera cacti "
- Heterodera ? weissi "
- Hoplolaimus sp. (2X) "
- H. galeatus "
- Meloidogyne sp. (3X) "
- M. arenaria "
- M. hapla (4X) (Nematode)
- M. incognita (2X) "
- Paratylenchus sp. "
- Rotylenchus sp. "
- Thamnosphecia scitula (Insect)
- Thyridopteryx ephemeraeformis (2X) "
- Xiphinema americanum (3X) (Nematode)
- Xiphinema sp. "

TEXAS:
- Litargus balteatus (Insect)
- Meloidogyne sp. (2X) (Nematode)

VIRGINIA:
- Gnorimoschema operculella (3X) (Insect)

WASHINGTON:
- Aphelenchoides fragariae (Nematode)
- Cumminsiella mirabilissima (Fungus)
- Gracilaria azaleella (Insect)
- Phyllosticta hedericola (Fungus)
- Pratylenchus crenatus (12X) (Nematode)
- P. neglectus "
- P. penetrans (2X) "
- P. pratensis (13X) "
- P. vulnus (5X) "

U.S.A. (State?):
- Gnorimoschema operculella (2X) (Insect)

UNKNOWN:
- Acedes pallescentella (3X) (Insect)
- Aridius constrictus "
- Attagenus gloriosae "
- Carpophilus dimidiatus "
- Corcyra cephalonica "
- Cryptophilus integer "
- Erebinae "
- Glischrochilus quadrisignatus "
- Heterodera cacti (Nematode)
- Heterobostrychus ? aequalis (Insect)
- Hofmannophila pseudospretella "
- Litargus balteatus (4X) "
- Minthea rugicollis "
- Murmidius ovalis "
- Trogoderma granarium (3X) "

WEST INDIES:
- Hofmannophila pseudospretella "

YUGOSLAVIA:
- Corky bark of grape (Virus)
- Fan leaf of grape (2X) "
- Leaf roll of grape (3X) "
- Yellow mosaic of grape "
- Yellow vein of grape (2X) "